

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/680,514	10/06/2000		Haruhiko Yokoi	249-118	9035
23117	7590	04/07/2004		EXAMINER	
NIXON & VANDERHYE, PC				SPECTOR, LORRAINE	
1100 N GLEBE ROAD 8TH FLOOR				ART UNIT	PAPER NUMBER
ARLINGTON, VA 22201-4714				1647	

DATE MAILED: 04/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	09/680,514	YOKOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lorraine Spector, Ph.D.	1647				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 Ja	nuary 2004.					
2a)⊠ This action is FINAL . 2b)☐ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 10-18 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 18 is/are rejected. 7) Claim(s) 10-17 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>06 October 2000</u> is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order of the ord	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

Application/Control Number: 09/680,514

Art Unit: 1647

Part III: Detailed Office Action:

Claims 10-15 are pending and under consideration.

Applicants request for consideration filed 1/12/2004 has been fully considered.

The new matter objection is withdrawn in view of applicants arguments.

Claim Objections:

37 C.F.R.§1.821(d) reads as follows:

(d) Where the description or claims of a patent application discuss a sequence listing that is set forth in the "Sequence Listing" in accordance with paragraph (c) of this section, reference must be made to the sequence by use of the assigned identifier, in the text of the description or claims, even if the sequence is also embedded in the text of the description or claims of the patent application.

The claims and/or specification are not in full compliance with 37 C.F.R.§1.821(d), and should be amended to refer to the appropriate sequence identifier(s) (SEQ ID NO:). For example, see claims 10-12. As Table 1 is a sequence, reference to such sequence must be by reference to the appropriate sequence identifier. Wording such as "is replaced by an amino acid sequence of SEQ ID NO: X having a set of substitutions selected from the group consisting of those of Table 2a-j" or the equivalent. Correction is required.

The declaration under 37 CFR 1.132 filed 1/12/2004 is sufficient to overcome the rejection of claims 10-15 based upon Curtis in view of Yamasaki, de Sauvage and Souza because the data show a significantly higher induction of CD61 by the fusion protein than by either cytokine alone. CD61 is a marker for megakaryocyte differentiation. As evidenced by Kuby at page 41-42 and Mire-Sluis at pages 237 and 330 (both references made of record herein), one might have expected a synergistic effect on granulocyte (including neutrophil) differentiation using the fusion protein, but not on megakaryocyte differentiation. Further, the greater effect of

the fusion protein *in vitro* (wherein kidney clearance is not an issue) relative to the two proteins in combination would not have been expected.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Number 5,989,537 teaches and claims the use of TPO in combination with G-CSF for the stimulation of neturophils. While this reference could have been applied in a rejection under 35 U.S.C. §103(a), the finding above applies equally to this reference.

Claims 10-15 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 16-18, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 16-18 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the paper mailed 6/21/02 is hereby withdrawn.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is drawn to controlling formation of 'colonies' in vivo. Cells are generally not regarded as forming colonies in vivo, hence the claim is indefinite. Deletion of the phrase "controlling formation of megakaryocyte colonies and neutrophil colonies and/or" would be remedial.

Art Unit: 1647

Advisory Information:

Claims 10-17 are objected to.

Claim 18 is rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Lorraine M. Spector, whose telephone number is (703) 308-1793. Dr. Spector can normally be reached Monday through Friday, 9:00 A.M. to 5:30 P.M. Effective 1/21/2004, Dr. Spector's telephone number will be 571-272-0893.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Gary L. Kunz, at (703)308-4623. *Effective 1/21/2004*, *Dr. Kunz' telephone number will be 571-272-0887*.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at telephone number (703) 308-0196.

Certain papers related to this application may be submitted to Group 1800 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Art Unit: 1647

Official papers filed by fax should be directed to (703) 872-9306 (before final rejection) or (703)872-9307 (after final). Faxed draft or informal communications with the examiner should be directed to (703) 746-5228. Effective 1/21/2004, Dr. Spector's fax number will be *571-273-0893*.

Lorraine Spector, Ph.D.

Primary Examiner